

Boeing Retrofits Hardware Systems Safeguarding Against Earthquakes

Seattle, WA - Deep inside the earth's crust, pressures are building that eventually will result in an earthquake of epic proportions. Deep inside Boeing, a few good people are busily tying everything down. One of them, Doug Marsh, became a believer after the Kobe, Japan, earthquake in 1995. He vividly remembers seeing film footage of workers freezing at the onset of the tremors-only reacting as equipment started falling all around them.

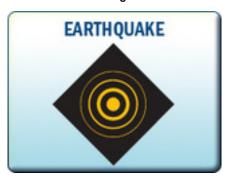
Having been in the Northwest during the 1965 Seattle earthquake, Marsh knew that 30 years was long enough for most people to get pretty relaxed about a potentially large-scale earthquake. "When I started talking about seismic mitigation in 1999, most people treated the subject without any particular sense of urgency," he said. "To the company's credit, a disaster preparedness audit had just been completed that showed the need for more earthquake preparation."

Steve Guzek, senior manager of Computing Disaster Preparedness in SSG Information Technology Services, saw the connection to his then-new organization immediately. "After that audit, I became convinced that seismic mitigation was going to be a critical part of any serious company-wide disaster preparedness program," Guzek said. Guzek drew Marsh into his group. Marsh immediately began working with Boeing organizations to develop seismic mitigation plans for their computing assets.

Fortunately, by the time Seattle got its rolling wake-up call in February 2001, Marsh and Davis had completed the installation of nearly 1,200 seismic isolation platforms and had made almost 1,000 machines virtually quakeproof. As a testament to their work, none of the machines that they retrofitted failed in the Nisqually shaker. Working with the vendors who make the server isolation hardware, Marsh helped develop a number of new methods for installation and upgrade that operators can perform while the server is online. In fact, the step-by-step processes that the Computing Disaster Preparedness group wrote to accompany them have become the industry standard for seismic mitigation procedures. "Boeing has become something of an industry bellwether in terms of seismic preparation," Guzek said. "But as we move further and further from the last significant quake, it is human nature to focus on other things. Organizations are less likely to put seismic preparation at the top of their 'to-do' list... "Until the ground moves again."



King County, Washington



Quick Facts

Sector:

Private

Cost:

\$1,500,000.00 (Estimated)

Primary Activity/Project:

Retrofitting, Non-structural

Primary Funding: Business Owner